

**LIST OF REFERENCES CITED BY APPLICANT**  
(Use Several Sheets if Necessary)DOCKET NO.: 0973/1B889  
APPLICANT: Michael SeulSERIAL NO: 09/171,550  
FILING DATE: October 26, 199810931 U.S. PTO  
09/688574  
10/17/00**U.S. PATENT DOCUMENTS**

<u>*EXAMINER INITIALS</u>	<u>DOCUMENT NUMBER</u>	<u>DATE</u>	<u>NAME</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>FILING DATE</u>
b	5,587,128	12/24/96	Wilding et al.	422	50	11/14/94
	5,498,392	03/12/96	Wilding et al.	422	68.1	09/19/94

**FOREIGN PATENT DOCUMENTS**

<u>*EXAMINER INITIALS</u>	<u>DOCUMENT NUMBER</u>	<u>DATE</u>	<u>COUNTRY</u>	<u>CLASS</u>	<u>SUBCLASS</u>	<u>TRANSLATION YES NO</u>
b	WO 96/04547	02/15/96		G01N	27/00	

**OTHER REFERENCES****(INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.)****\*EXAMINER  
INITIALS**

b

Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," Mark Schena, Dari Shalon, Ronald W. Davis, Patrick O. Brown, *Science*, Vol. 270, pp. 467-470, October 20, 1995.

b

"Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," Briar B. Haab and Richard A. Mathies, *Analytical Chemistry*, Vol. 67, No. 18, pp. 3253-3260, September 15, 1995.

EXAMINER:

b

DATE CONSIDERED:

9/15/04

\*Examiner: Initials if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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DOCKET NO.: 0973/1b889-US1  
APPLICANT: Michael SEUL  
FILING DATE: Concurrently Herewith

SERIAL NO: To Be Assigned  
(U.S. Nat'l. Phase of Int'l.  
Appln. No. PCT/US97/08159  
Filed 24 April, 1997)

jc931 U.S. PTO  
09/688574  
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**U.S. PATENT DOCUMENTS**

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**OTHER REFERENCES****(INCLUDING AUTHOR, TITLE DATE, PERTINENT PAGES, ETC.)**

\*EXAMINER  
INITIALS

1. S.R. Yeh, M. Seul, Bl. Shraimans, "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow", Nature:Vol. 386.6 March 1997 pps. 57-59.
2. M. Giersig & P. Mulvaney, "Formation of Ordered Two-Dimensional Gold Colloid Lattices by Electrophoretic Deposition", J.Phys.Chem 1993, 97, 6334-6336.
3. M. Seul & C.A. Murray, "Scale Transformation of Magnetic "Bubble" Arrays: Coupling of Topological Disorder and Polydispersity", Science Vo. 262 22 Oct. 1993, pps. 558-560.
4. M. Trau, D.A. Saville, I.A. Aksay, "Field-Induced Layering of Colloidal Crystals", Science Vol. 272, May 1 1996, pps. 706-709
5. M. Seul & D. Andelman, "Domain Shapes and Patterns: The Phenomenology of Modulated Phases", Science, Vol. 267, 27 Jan. 1995, pps. 476-483.
6. The International Preliminary Examination Report dated April 27, 1998, received in the corresponding international application.

EXAMINER:

DATE CONSIDERED:

8/15/98



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FORM PTO-1449  
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ATTY. DOCKET NO.: 464.1006 CON6

SERIAL NO.:

09/688,574

## LIST OF PRIOR ART CITED BY APPLICANT

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APPLICANT(S): SEUL, Michael

FILING DATE: October 17, 2000

GROUP: 1641

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## U.S. PATENT DOCUMENTS

*EXAMINER INITIAL		DOCUMENT NUMBER							DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
b	AA	3	9	9	8	5	2	5	12/21/76	Giglia	350	160	08/21/75
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	AC	4	4	5	6	5	1	3	06/26/84	Kawai et al.	204	180	08/25/82
	AD	4	5	7	5	4	0	7	03/11/86	Diller	204	67	10/24/84
	AE	4	5	9	1	5	5	0	05/27/86	Hafeman et al.	435	4	04/05/84
	AF	5	4	4	4	3	3	0	08/22/95	Leventis et al.	313	506	02/18/93
	AG	5	5	8	7	1	2	8	12/24/96	Wilding et al.	422	50	11/14/94
	AH	5	4	9	8	3	9	2	03/12/96	Wilding et al.	422	68.1	09/19/94
	AI	5	8	5	5	7	5	3	01/05/99	Trau et al.	204	484	11/26/96
	AJ	6	0	3	3	5	4	7	03/07/00	Trau et al.	204	622	01/04/99
	AK												

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER							DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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b	AL	9	6	0	4	5	4	7	02/15/96	PCT	G01N	27/00		X
	AM													
	AN													
	AO													
	AP													

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

b	AR	Yeh, et al., "Assembly of ordered colloidal aggregates by electric-field-induced fluid flow," <i>Nature</i> , vol. 386.6: 57-59 (1997)
	AS	Giersig et al., "Formation of ordered two-dimensional gold colloid lattices by electrophoretic deposition," <i>J. Phys. Chem.</i> , vol. 97: 6334-6336
	AT	Seul et al., "Scale transformation of magnetic bubble arrays: coupling of topological disorder and polydispersity," <i>Science</i> , vol. 262: 558 - 560 (1993)

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Sheet 2 of 2

FORM PTO-1449  
(REV. 7-80)

U.S. DEPARTMENT OF COMMERCE  
PATENT AND TRADEMARK OFFICE

ATTY. DOCKET NO.: 464.1006 CONG

SERIAL NO.:

09/688,574

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GROUP: 1641

U.S. PATENT DOCUMENTS

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	BA						
	BB						
	BC						
	BD						
	BE						
	BF						

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	BG							
	BH							
	BI							

OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

6	BJ	Trau et al., "Field-Induced Layering of Colloidal Crystals," <i>Science</i> , vol. 272 : 708-709 (1998)
	BK	Seul et al., "Domain Shapes and Patterns: The Phenomenology of modulated Phases," <i>Science</i> , vol. 267 : 476-483 (1995)
	BL	Schena et al. "Quantitative Monitoring of Gene Expression Patterns with a Complementary DNA Microarray," <i>Science</i> , vol. 270 : 467-470 (1995)
	BM	Haab et al. "Single Molecule Fluorescence Burst Detection of DNA Fragments Separated by Capillary Electrophoresis," <i>Analytical Chemistry</i> , vol. 67 (No. 18) : 3253-3256 (1995)
	BN	Richetti, et al., <i>J. Physique Lettr.</i> , vol. 45 : L-1137 to L-1143 (1984)
V	BO	Sze, "MIS Diode and Charge-Coupled Device," <i>The Physics of Semiconductors</i> , Chapter 7, pp. 362-430 (2 <sup>nd</sup> Edition) (Wiley Interscience 1981)
	BP	
	BQ	
	BR	

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*EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
62	AA 4 4 9 9 0 5 2	2/12/85	Fulwyle	422	52	8/3/82
	AB 4 6 4 7 5 4 4	3/3/87	Nicoi et al.	436	518	8/25/85
	AC 4 8 2 2 7 4 6	4/18/89	Walt	436	528	5/25/86
	AD 4 9 9 4 3 7 3	2/19/91	Stavrianopoulos et al.	435	6	7/20/89
	AE 5 0 0 2 8 6 7	3/26/91	Macevitz	435	6	10/24/88
	AF 5 0 2 8 5 4 5	7/2/91	Soini	436	501	6/9/88
	AG 5 1 0 5 3 0 5	4/14/92	Betzig	359	368	1/10/88
	AH 5 1 1 4 8 6 4	5/19/92	Walt	436	528	9/19/89
	AI 5 1 3 2 2 4 2	7/21/92	Cheung	436	501	11/13/89
	AJ 5 1 3 2 0 9 7	7/21/92	Van Deusen et al.	422	82.09	9/4/90
	AK 5 1 4 3 8 5 3	9/1/92	Walt	436	501	2/2/89

## FOREIGN PATENT DOCUMENTS

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	AN	0	7	2	3	1	4	6	7/24/96	EP	G01N	2/64		X
	AO	8	9	1	1	1	0	1	11/16/89	PCT	G01N	33/546		X
	AP	9	3	0	2	3	6	0	2/4/93	PCT	G01N	33/536		X

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

AQ	Peterson, et al. "Fiber optic pH probe for physiological use," Anal. Chem. Vol. 52, 864-869 (1980)
AR	Peterson, et al. "Fiber-Optic Sensors for Biomedical Applications," Science, 13: 123-127 (1984).
AS	Fuh, et al., "Single Fibre Optic Fluorescence pH Probe," Analyst, 112: 1159-1163 (1987).

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DATE CONSIDERED

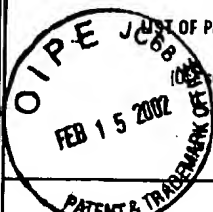
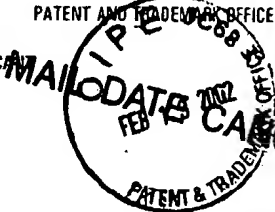
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6	BA	5	1	9	4	3	0	0	3/16/93	Cheung	427	213.31	1/8/89
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	BC	5	2	4	4	6	3	6	9/14/93	Walt et al.	422	82.07	1/25/91
	BD	5	2	5	0	2	6	4	10/5/93	Walt et al.	422	82.07	12/21/92
	BE	5	2	5	2	4	9	4	10/12/93	Walt	436	528	3/30/92
	BF	5	2	5	4	4	7	7	10/19/93	Walt	436	172	9/19/91
	BG	5	2	9	8	7	4	1	3/29/94	Walt et al.	250	227.23	1/13/93
	BH	5	3	0	6	6	1	8	4/26/94	Prober et al.	435	6	1/16/92
	BI	5	3	2	0	8	1	4	6/14/94	Walt et al.	422	82.07	11/25/92
	BJ	5	3	6	2	6	5	3	11/8/94	Carr et al.	436	165	5/6/92
	BK	5	4	0	5	7	8	4	4/11/95	Van Hoegaerden	436	523	2/25/93

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	BN	9	7	1	4	0	2	8	4/17/97	PCT	G01N	15/10		X
	BO													
	BP													

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

6	BO	Barnard, et al., "A fibre-optic chemical sensor with discrete sensing sites," Nature, vol. 353: 338-340 (1991).
	BR	Carpian, et al. "Colored and Fluorescent Solid Supports," Innovation and Perspectives in Solid-Phase Synthesis. Ed: E. Birmingham (Mayflower, London), pp. 469-472 (1994).
	BS	Pope, "Fiber optic chemical microsensors employing optically active silica microspheres," SPIE, vol. 2388 : 245-256 (1995).

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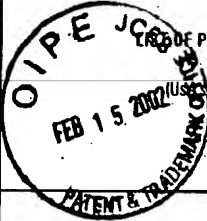
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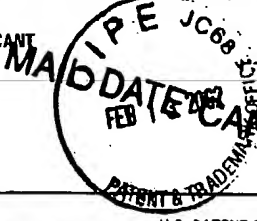
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62	CA	5	4	8	0	7	2	3		1/2/96	Klainer et al.	428	441	5/7/94
	CB	5	8	1	4	5	2	4		9/29/98	Walt et al.	436	518	12/14/95
	CC	5	4	9	6	9	9	7		3/5/96	Pope	250	227.21	7/30/94
	CD	5	5	1	2	4	9	0		4/30/96	Walt et al.	436	171	8/1/94
	CE	5	5	8	5	3	2	4		10/15/98	Still et al.	435	8	4/13/94
	CF	5	5	6	7	6	2	7		10/22/96	Lehnen	436	518	11/5/93
	CG	5	6	3	3	7	2	4		5/27/97	King et al.	356	445	8/29/95
	CH	5	6	3	3	9	7	2		5/27/97	Walt et al.	385	116	11/29/95
	CI	5	6	5	0	4	8	8		7/22/97	Lam et al.	530	334	6/18/91
	CJ	5	6	5	2	0	5	9		7/29/97	Margel	428	403	1/25/95
	CK	5	6	7	4	6	9	8		10/7/97	Zarling et al.	435	7.92	3/30/95

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	CL														
	CM														
	CN														
	CO														
	CP														

## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

62	CQ	Grazia et al., "In-vivo biomedical monitoring by fiber-Optic System," Journal of Lightwave Technology, 13, 1396-1406 (1995).
	CR	Bangs, "Immunological Applications of Microspheres," The Latex Course, Bangs Laboratories (April 1996)
	CS	"Fluorescent Microspheres (Tech. Note #19)," Bangs Laboratories (1997)

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6. Naylor

DATE CONSIDERED

9/15/94

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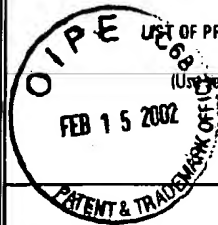
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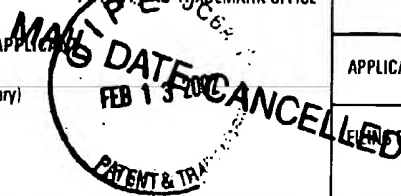
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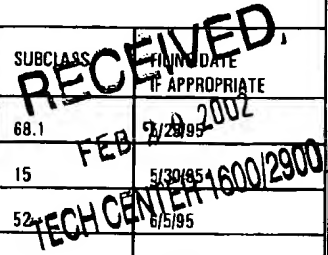
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GROUP: 1641

## U.S. PATENT DOCUMENTS

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le	DA 5 6 9 0 8 9 4	11/25/97	Pinkel et al.	422	68.1	5/28/99
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	DC 5 7 7 9 9 7 6	7/14/98	Leland et al.	422	52	6/5/95
	DD 5 9 3 9 0 2 1	8/17/99	Hansen et al.	422	55	1/23/97
	DE 5 9 6 1 9 2 3	10/5/99	Nova et al.	422	68.1	9/30/96
	DF 5 9 6 5 4 5 2	10/12/99	Kovacs	436	149	7/9/96
	DG 6 0 4 8 6 9 0	4/11/00	Heller et al.	435	6	5/14/97
	DH 6 0 9 0 5 4 5	7/18/00	Wohlstadtter et al.	435	6	3/6/97
	DI 6 0 9 0 9 1 2	7/18/00	Lebl et al.	530	300	11/23/98
	DJ 6 2 0 0 7 3 7	3/13/01	Walt et al.	430	320	8/24/95
	DK					



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	DN													
	DO													
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## OTHER PRIOR ART (Including Author, Title, Date, Pertinent Pages, Etc.)

le	DD	Egner, et al., "Tagging in combinatorial chemistry: the use of coloured and fluorescent beads," Chem. Commun. pp. 735-736 (1997)
	DR	Fulton, et al., "Advanced multiplexed analysis with the FlowMetrix system," Clinical Chemistry, vol. 43:9, pp. 1749-1756 (1997).
	DS	Scott et al., "Properties of fluorophores on solid phase resins; implications for screening, encoding and reaction monitoring," Bioorganic & Medicinal Chemistry Letters, 7:12, pp. 1567-1572 (1997).

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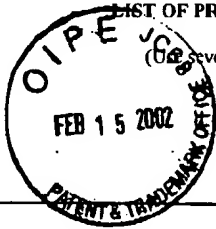
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DATE CONSIDERED

9/15/01

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464.1006 CON6SERIAL NO.:  
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2000

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	EF						
	EG						
	EH						
	EI						
	EJ						
	EK						

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	EM							
	EN							
	EO							
	EP							

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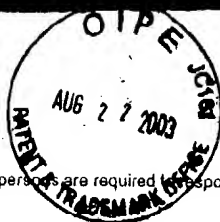
6	EQ	Healey et al., "Fiberoptic DNA sensor array capable of detecting point mutations," Analytical Biochemistry, vol. 251, pp. 270-279 (1997).
6	ER	"Microsphere Selection Guide," Bangs Laboratories, Inc. (Fisher, IN) (September 1998)
	ES	

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# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET 1 OF       

Complete if Known

Application Number: 09/668,578

Filing Date: 10/17/00

First Named Inventor: M. Seul, et al.

Group Art Unit: 1641

Examiner Name:       

Attorney Docket Number: LEAPS comb

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Examin er Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
	Number			
6 ↓ ↓ ↓ ↓ ↓ ↓	6,083,763		Balch	7/4/2000
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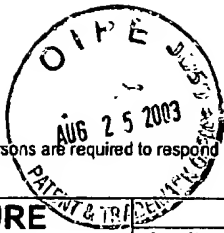
## FOREIGN DOCUMENTS

Examiner Initials	Foreign Patent Documents		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Translation
	Office	Number Kind Code (if known)			
b ↓ ↓ ↓		WO 00/04372	Anstyn, et al.	1/27/2000	
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Examiner Signature	<u>b. Hay</u>	Date Considered	<u>9/15/02</u>
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## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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SHEET 1 OF 1

Complete if Known

Application Number:

Filing Date:

First Named Inventor: M. Seul, et al.

Group Art Unit:

Examiner Name:

Attorney Docket Number:

Examiner Initials	U.S. Documents		U.S. Patent Document Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY
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Examiner Signature	<i>E. Hays</i>	Date Considered	9/15/04
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